

Title (en)

ON DEMAND AUTO TUNER FOR PLANT CONTROL SYSTEM

Title (de)

BEDARFSGESTEUERTER AUTO-TUNER FÜR EIN ANLAGESTEUERSYSTEM

Title (fr)

ACCORD AUTOMATIQUE A LA DEMANDE DE SYSTEME DE COMMANDE D'INSTALLATION

Publication

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Application

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Priority

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Abstract (en)

[origin: US2007073422A1] A method to automatically tune control systems, the method comprising selecting a target loop transfer function for at least one plant subsystem in response to an input excitation, selecting at least one fit-error criterion for a plant subsystem transfer function, and automatically inputting the input excitation and tuning the plant subsystem transfer function to the target loop transfer function. The tuning includes automatically selecting a bandwidth of the plant subsystem transfer function from a plurality of bandwidths determined in accordance with limits of the plant subsystem, inputting the input excitation to the plant subsystem, determining the fit-error of the plant subsystem transfer function to the target loop transfer function in response to the input excitation, and continuing the selecting of a bandwidth in accordance with the fit-error criterion.

IPC 8 full level

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CPC (source: EP US)

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